

# Bibliographic data: EP 0415194 (A2)

Indicating device for vehicle,

Publication 1991-03-06

date:

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B60Q1/26; B60Q1/50; B60Q7/00; (IPC1-7): B60Q1/50; B60Q7/00; international: G09F21/04 Classification:

- European: B60Q1/26D; B60Q1/50; B60Q7/00

Application EP19900115709 19900816 number:

Priority CH19890003128 19890829 number(s):

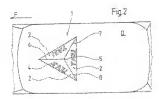
Also EP 0415194 (A3) published as: CH 684184 (A5)

US3274548 (A) Cited US3828456 (A) US2960786 (A) US4848263 (A) View

## Abstract of EP 0415194 (A2)

documents:

An indicating device for attachment to the roof of a motor vehicle, consisting in a closed box with display symbols and/or lettering such as "Taxi", "Police" or the like. In order to reduce its air resistance and at the same time in order to ensure that the information (4) on it can be perceived on all sides, the box (1) is constructed in the form of a pyramid



Last updated: 26 04 2011 Worldwide Database 5 7 23 93p

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#### Description EP0415194

#### DISPLAY PLATE FOR MOTOR VEHICLES

The invention relates to a display sign for altrachment to the rock of a motor vehicle, consisting in a closed box with display symbols and continuous installs such as "Taxx," ballion or the like

In a more of discountable stage has the requesting and the vertical end, with more in a hardypation, equility reproduce or inflamments which hailing flewers his not end put, has the later on an of side and ready dispay with two parallel shright between sides as two sides, parallel flowers are of side ordigate. It cannot be a constant through the shape of the corresponding sides from the control side ordigate. It cannot be a constant signal, the control side of the control sides for the control sides of t

Although his proposed design of the flurinded sign loss of flow masseds, pleague that richer Signs with couldord signes peoples, but the six installance of the alternatives also be scorpfied to the proposed especially at ingriving speeds, not negligible his solverlang tecnologilly conversegal, another backwards of the Alternative Stop on generalisative spiles in the cut for the receives information about the time to or distributions of the illuminative size in the cut of the receives information about the solventing or distributioning of this illuminative sign box in questions in indentating in each case with the fixed size incurrenting of general post of the size of the size

The Invention has as its object to provide a display, says for valuelose, which avoids the dissulvantages of this traction. If it with good observing effectiveness of an accryotemic design exhibit Purthermore, a simplified, quick handling as possible when applying the indicator plate on the vehicle root and the receipting of the saves of desirable.

The problem is solved in accordance with the invention of the GUIDE feature training by the body of

Owing to do wedge like from of the amenicon is subject to the wind agreed a significant lower restriction. When a her singled and in the air resears with a corresponding igning of the reverted width transverse Bummarted sign box. The obliquely upwardly entending three faces of the pyramid-shaped bon on all sizes allow existing of information stabuled to the original control of the properties of the properties of the properties of the properties of the pyramid-shaped bon on all sizes allow existing of information stabuled to the properties of the properties of the properties of the pyramid-shaped bon on all sizes allow existing of the properties of the pyramid-shaped bon on all sizes allow existing of the properties of the pyramid-shaped bon on all sizes allow existing of the pyramid-shaped bon on the pyramid-shaped bon on all sizes allow existing of the pyramid-shaped bon on all sizes allow existing of the pyramid-shaped bon on the pyramid-shaped bon on all sizes allow exists of the pyramid-shaped bon on th

Festures a perficularly adventageous further embodiment of the invention are the subject of the december of terms 2 to 12.

The invention is further illustrated by way of preferred example embodiments in accordance with the distortion.

#### In the drawings

- I shows a side view of an embodiment of a display sign for vehicles according to the invention in operating position in the partially out-every over of a multin vehicle.

  2 shows a plan view of the display sign of FIS 1.

  2 a sivery of the display sign according to the FIS3 and 2 from beliaw.
- 2 is a view of the anipsky sign according to the HIGH and 2 from below.
  4 shows a view of another empodiment of a display sign for vehicles according to the excention from
- 5 is a side view of the display plate of FP3 v in operating position in the partially cut away roof of a motor vehicle, and
- vehicle, and for a sectional view of a potion of the display sign according to the figures 4 and 5, along the section obsers AA.

The or Enjoyan E. é Burstande opply plate for attendment to the conf. of a motion whole or in a closed box that can be provided in the display applied in of contractions between costs of Test." private or in the security is the description to the contractions between pages and the contractions of the security in the contraction of the contractions of the security of the contraction of the security of the contraction of the contraction of the security of the contraction of the contraction of the security of the security of the contraction of the security of the contraction of the security of the secu

The pyramid-stripped how has a purificularly advantageous using with an asymmetrization (including this distribute II the Vertical sourcement, distribute on weaple-sleep cyrints, it is considered in the operation position in the distribute of trainer IF disappointly varieties for the pyramid hold sockeding eagle of the toxil. 8 1 for larger time time other level, ratio with tell privile preprieted confirming eagles? Cyledings do some

The base of the pyramid enable box one must not necessarily be trained as a triscape. A streamment that or the box 1 and an alt-round systelity of information affairmed to 4 to guaranteels, for example, it a pyramid were a signific elotypart, expecually when looking in the detection of me edges are truges train the truges are truges trained and the second of th

The attachment of the basine the website roof 1.0 can be particularly useful magnetic, which exist between the base to of the former and the surface of the latter's remains a pap. Forum 1 and Figure 3

show a possible embodreent of the fastening device 9. The fastening device 9 is in the form of a carner 10, which in stan view, hos double-T shape. This advantageously has a form of a forsion bor connecting beam 11. In turn, on the cool of the richide 5 facing side of the base 3 is assumed to the por 1. If is advisable to provide at each of the four ends of the doubte-T beam 16 each, a permanent magnet 12

Avenuer embodiment of the fastering device 9 is shown in Figures 4 through 6

The attachment is here using only three permanent magnets 112 which are slicably mounted on two rails 113. 114 fines. The raise themselves are so on the mot of the vehicle D underside facing the triangular shaped, flor base surface 3 of the fixed body 1, that the one, the shorter soi 113 in direction F of the singlest, we have shown and the save a series coury if many we have only of the base 2 is created. The shorter Mach 112 takes on a permanent magnet 112th. The other knowledge that 112 before the proportion of the base 2 is created. The shorter Mach 112 takes on a permanent magnet 112th. The other knowledge that 112 is permanent to the shorter 113 and also passed to the rad, however, the that contract proving the safe passed to the base 3 beforem the two contracts proving the safe passed to the base 3 beforem the two contracts proving the safe passed to the base 3 beforem the two contracts proving the safe passed to the base 3 before the two contracts proving the safe passed to the base 3 before the two contracts proving the safe passed to the base 3 before 113 and 112 and sideways and the latter comes two permanent magnets 112th

This arrangement of the raid 113, 114 is advantageous, but other pount-lifes are conceivable attandemens

The length of the rails 113, 114 should be such that the mounting of the display plate such that the bas of the pyramid-shaped body 1 occupies one substantially horizontal position, even on vehicles is possible that a so-colled son roof or a TV equipped with rits B Poof exhibit.

To faster the box 1 on a vehicle roof D puricularly advantageous permanent magnets 112 are discular explorated across

As an embadiment, the tollowing mass to be specified. Shoner length of the rail 113, L.1 = 050 mm. Length of the longer rail 114, L2 = 650 mm. Demoter of the permanent magnets 112, d = 100 mm Adjustment for magnet 112 on rail 113, b = 250mm Adjustment for fotal of \$12 magnetic rad \$14, b = 480 mm

It is also possible not two permishent magnets 112 to be arranged together on a reil, but for each of the permanent magnets have a separate field shall be provided at each each of the rest of the ventate D undernote facing the bases of 3 of the fixed body 1, that the basic unities 3 of a statement of the body 1 on a whole record D by substitute displacement of the permanent magnets 1 to the rafts, a substitution of the permanent magnets and the contract of the permanent magnets are the other permanents. honzontal postuon can take

An optimal placement of the box 1 on a non-continuous flat roof of the vehicle D can also be guaranteed even then under certain orcumstances, if only one of the permanent magnets 112 is slidable on a rail and the other permanent magnets fixed to the base 3 of the offsehed box 1

mmerided to fix the permanent magnets 112 to move spatially restricted, at least at the has 3 of the Lox 1. The can happen repending on an elastic body, to example a mid-range has a reduced dismater, cylindrical (discov-like) element 1.15 made of rubber. The anchoring of each permonent magnet 112 by means of the newtral bare of element 115 passing through bolt 117, with the associated nut 118 in economism of the meritablished for the United States provided in the Commission of the Security of the Commission of the side view of said arrangement is in a section along the section plane AA according to Figure 5

It would also be the steering wheel is one of the permanent magnets. 112 with the aid of ball joints and an apparent

In the manner described here is an optimal adoptation of the permanent magnets 112 on any vehicle roof and therefore the development of the maximum holding power available through the same

The length extends from the base surface 3 of the box 1 in the arrection of the pyramic bp 5 extending edges 6. 7 and 5 use also be such that those have no common improvation, but that its out the coming of this base 3 and points forming the virtuoes of a to form the essential Trichs parallel surface. The box I has in this case the form of a "truncated" pyramd.

As of this embodiment can also mutually parallal addes 8, 7 and 8 are provided

This results in a premiske body, whose parallel three longitudinal adgres advantageously shoner than the stock edges of his two transgular-empted faces are disrensioned and stoublibe with one of his triangular faces of the roof hose C and is oriented with its longitudinal edges in the direction F. Another possibility as a prom-like body with dismond-shaped horizontal s

